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AN - 2001-653569 [75]
TI - Silver coated photocatalyst production
AB - KR2001057595 NOVELTY - Production of a silver coated photocatalyst which rapidly cause oxidation and reduction reactions so that not only varieties of foreign substances and bacteria existing near photocatalyst are sterilized and decomposed but also strong germicidal power is maintained even at a dark place such as a darkroom comprises substituting a metal having a strong molecular contact activity, silver (Ag), for a photocatalyst so as to obtain a crystal structure of ultra-high heat resistant isotope.
- DETAILED DESCRIPTION - Production comprises heating the mixture to ca. 60 deg. C by adding ca. 1 wt.% of a small amount of silver (Ag) to the dissolved material after sufficiently dissolving by placing ca. 3 wt.% of nitric acid (HNO₃) into ca. 50 wt.% of pure water based on the total weight ratio; slowly agitating the materials after adding about 30 wt.% of titanium dioxide (TiO₂) to the mixture; washing the mixture with pure water after stirring the mixture again at a low speed of 100 rpm or less as continuously maintaining a temperature of the mixture to about 60 deg. C when the materials are sufficiently mixed; and crushing the resulting material in a crusher after evaporating the moisture by drying the material washed by pure water so that a silver coated fine powder photocatalyst is obtained which has a strong antibacterial power at a bright place as well as a dark place such as a darkroom.
- (Dwg.0/0)
IW - SILVER COATING PHOTOCATALYST PRODUCE
PN - KR2001057595 A 20010705 DW200175 B01J23/50 000pp
IC - B01J23/50
MC - J04-E04
DC - J04
PA - (GTWO-N) G2K CO LTD
IN - JANG R Y
AP - KR19990060624 19991222
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